



PROGRAMMER / SOFTWARE DEVELOPER

The Open Voice Network (OVON), an open-source community of the Linux Foundation, is dedicated to the development of technology standards and guidelines that will make the emerging world of voice assistance worthy of user trust. The Technical Committee of the Open Voice Network has chartered a Technical Committee Working Group to explore and recommend potential standards for **voice-agent-to-voice-agent interoperability**. This is a milestone-driven contract position with the Linux Foundation.

The **Programmer / Software Developer** will assist in the design, implementation, testing, documentation, and demonstration of “enhancements” that will enable agent-to-agent interoperability.

The **Programmer / Software Developer** will execute the below deliverables to the Open Voice Network and receive compensation through a Services Agreement with the Linux Foundation. The Linux Foundation is an equal opportunity employer.

DELIVERABLES

Consultative and Support services that will include the design, implementation, testing, documentation, and demonstration of the first two of an estimated six “enhancements” that will enable agent-to-agent interoperability. This will include:

- ▲ Contributions as to design, development suggestions for the desired enhancements within weekly virtual one-hour team meetings;
- ▲ The design, creation, testing, and demonstration of software prototypes for the desired enhancements that will enable voice-agent-to-voice-agent interoperability.

- ▲ System-level documentation for each enhancement within the Open Voice Network GitHub repository;
- ▲ Demonstration of each enhancement to OVON team members, with revisions suggested by team and outside reviewers.

The Programmer / Software Developer will report to John Trammell, a member of the Architecture Work Group and representative of an Open Voice Network sponsor company. Deliverables and deliverable artifacts will receive final approval from John Trammell.

EVALUATIVE MILESTONES

Due dates may be adjusted to reflect the success of earlier deliverables. Criteria for acceptance of each deliverable include:

- a. Robustness of code
- b. Completeness of documentation
- c. Reusability of code
- d. Completeness of functions implemented by code

No.	Enhancement Name	Tentative Due Date
1	Install communications system, integrate two voice agents.	2021.12.15
2	Integrate VRS software, demonstrate explicit request of a voice agent by its invocation name.	2022.01.15
3	Develop, integrate, demonstrate software to switch between voice agents.	2022.02.15
4	Develop, integrate, demonstrate software to implicitly invoke a voice agent.	2022.04.15
5	Develop, integrate and demonstrate software to share data and context between two voice agents.	2022.06.15
6	Develop, integrate, and demonstrate software to present remote voice agents using another persona.	TBD



Focus of this engagement:

REQUIREMENTS

- ▲▲ Working familiarity with collaboration tools: GitHub, Slack, Zoom, Google Workspace.
- ▲▲ Five years working with operating systems/development systems/programming languages.
- ▲▲ At least two years of experience developing voice agents (including speech recognition, speech synthesis, dialog management, and natural language processing).
- ▲▲ Experience integrating existing software modules and systems and demonstrating the resulting system.
- ▲▲ Experience designing, writing, testing, documenting, and demonstrating code using Rust or other development environment.
- ▲▲ English-language communication (speak, write) skills and the ability to work with an international team of designers and developers.

COMPENSATION

We anticipate this to be structured as a multi-phase engagement. Phase One, which is described here, is expected to run through January 2022. Compensation will be structured in accord with expertise.

To apply for this position, please submit your resume via the **Positions to Hire** page on the Open Voice Network website.

